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# **WATER SUPPLY OUTLOOK FOR OREGON**

U.S. DEPARTMENT OF AGRICULTURE  
JUN 22 1977



**U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE**

Collaborating with

**OREGON DEPARTMENT OF WATER RESOURCES**

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF  
**JUNE 1, 1977**

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*COVER PHOTO: SNOW COURSE MEASUREMENTS BY A SURVEY TEAM IN UTAH'S WASATCH RANGE.*  
ORC-254-10

### PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, 6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



# **WATER SUPPLY OUTLOOK FOR OREGON**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

*Issued*

JUNE 8, 1977

*Issued by*

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OREGON  
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OF  
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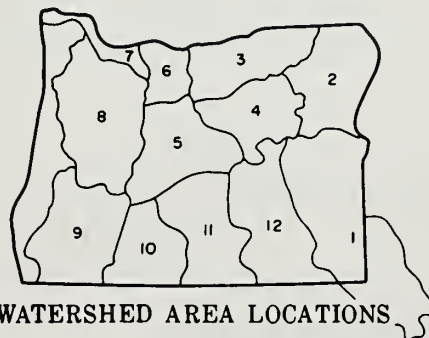
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# WATER SUPPLY OUTLOOK for OREGON

J U N E 1 , 1 9 7 7

Above average precipitation in May has helped to alleviate the water shortage in most of western Oregon. Central and eastern Oregon are still under the influence of the drought conditions and will be short in their water supplies.

## SNOW COVER

The only extensive snow cover left in Oregon is in the high Cascades and even here most scheduled snow courses reported no snow. Eastern Oregon snow courses were not scheduled for measurement - snow in this area is essentially melted.

## PRECIPITATION

May precipitation was above average, ranging from 148% of average in the Burnt-Grande Ronde Rivers area to 225% of average in the Upper Deschutes River area. This precipitation helped to relieve the water limitations in western Oregon, especially in the Willamette Basin.

## RESERVOIR STORAGE

Most western Oregon reservoirs report near to above average storage. Storage has increased significantly over that reported on May 1. Storage in central and eastern Oregon reservoirs ranges from good to well below average.

## STREAMFLOW

May streamflow in western Oregon was greater than that reported in April. This was a reflection of the above normal precipitation. However, May streamflow in eastern Oregon generally continued to decline.

This report contains data furnished by the Oregon Department of Water Resources, U.S. Geological Survey, NOAA National Weather Service and other cooperators.



JUNE 1, 1977

## STREAMFLOW FORECASTS

STREAMFLOW FORECASTS			THIS YEAR		PAST RECORD	
BASIN, STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET		
	Thousand Acre Feet	Percent of Average		Last Year	Average †	
OWYHEE, MALHEUR WATERSHEDS						
Malheur near Drewsey	5.5	17	May-July		32	
	6.0	18	May-Sept.		33	
Malheur, North Fork at Beulah	7.0	20	May-July		35	
	7.5	19	May-Sept.		40	
Owyhee Reservoir net Inflow	35	22	May-July		157	
	36	20	May-Sept.		180	
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS						
Bear near Wallowa	30	52	May-Sept.		58	
Burnt near Hereford	2.5	18	May-July		13.8	
	3.0	20	May-Sept.		14.8	
Catherine near union	25	47	May-Sept.		53	
Eagle Creek abv. Skull Creek	38	25	May-July		152	
	42	25	May-Sept.		166	
Grande Ronde at La Grande	35	38	May-July		92	
	37	38	May-Sept.		96	
Hurricane near Joseph	28	64	May-Sept.		44	
Imnaha at Imnaha	101	40	May-Sept.		253	
Lostine near Lostine	64	55	May-Sept.		117	
Powder near Sumpter	8.0	20	May-July		40	
	8.5	21	May-Sept.		41	
Wallowa, East Fork near Joseph	4.5	53	May-July		8.5	
	5.0	47	May-Sept.		10.7	
Wallowa near Joseph	31	44	May-July		70	
Wolf Creek Dam Inflow	0.7	9	May-June		7.6	
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS						
Birch Creek at Rieth	3.9	55	May-July		7.1	
McKay near Pilot Rock	5.3	60	May-Sept.		8.8	
Umatilla near Gibbon	15.0	38	May-July		39	
	18.0	40	May-Sept.		45	
Umatilla at Pendleton	25	37	May-July		68	
Walla Walla, South Fork near Milton	30	59	May-Sept.		51	
Butter Creek Near Pine City	0.5	15	May-July		3.4	
UPPER JOHN DAY WATERSHEDS						
Camas Creek near Ukiah	5.0	31	May-July		16.2	
	5.5	33	May-Sept.		16.7	
John Day, Middle Fork at Ritter	22	33	May-July		67	
	23	33	May-Sept.		70	
John Day, North Fork at Monument	110	32	May-July		340	
	115	32	May-Sept.		354	
Strawberry near Prairie City	4.0	62	May-July		6.5	
	4.5	63	May-Sept.		7.2	
UPPER DESCHUTES, CROOKED WATERSHEDS						
Beaver Creek near Paulina	1.0	23	May-July		4.4	
	1.2	26	May-Sept.		4.6	
Crane Prairie Reservoir total Inflow	20	31	May-July		64	
	30	28	May-Sept.		105	
Crescent at Crescent Lake	7.0	45	May-July		15.6	
	8.0	41	May-Sept.		19.6	
Crooked near Post	6.0	19	May-July		32	
Deschutes at Benham Falls	191	68	May-July		281	
	320	68	May-Sept.		471	
Deschutes below Snow Creek	10.8	19	May-Sept.		56	
Deschutes, Little near La Pine	10.0	19	May-July		53	
	15.0	24	May-Sept.		63	
Ochoco Reservoir net Inflow	2.0	22	May-Sept.		9.2	
Odell near Crescent	13.0	57	May-Sept.		23	
Squaw near Sisters	30	65	May-Sept.		46	
Tumalo near Bend	25	64	May-Sept.		39	

+ 1958-1972 period.

JUNE 1, 1977

## STREAMFLOW FORECASTS

STREAMFLOW FORECASTS		THIS YEAR		PAST RECORD	
BASIN, STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS					
Hood, West Fork near Dee	50	59	May-July		35
	70	65	May-Sept.		107
White below Tygh Valley	40	51	May-July		79
	48	51	May-Sept.		94
LOWER COLUMBIA WATERSHEDS					
Columbia at The Dalles	54,500	52	April-Sept.		--
Sandy River near Marmot	120	53	May-July		227
	155	55	May-Sept.		282
WILLAMETTE WATERSHEDS					
Clackamas at Estacada	242	54	May-July		447
	340	60	May-Sept.		562
Clackamas above Three Lynx	240	70	May-July		343
	330	75	May-Sept.		440
McKenzie at McKenzie Bridge	200	61	May-July		329
	310	65	May-Sept.		474
McKenzie near Vida	420	58	May-July		720
	600	63	May-Sept.		947
McKenzie, So. Fork near Rainbow	100	71	May-July		140
	125	74	May-Sept.		169
Oak Grove Fork above Power Intake	70	79	May-July		39
	105	82	May-Sept.		128
Row near Dorena	40	75	May-July		53
	45	78	May-Sept.		58
Santiam, North at Mehama	350	71	May-July		493
	470	78	May-Sept.		600
Santiam, South at Waterloo	220	68	May-July		323
	290	76	May-Sept.		382
Willamette, Mid. Fk. blw. N. Fk. nr. Oakridge	350	76	May-July		462
	425	76	May-Sept.		562
Willamette, No. Fk. of Mid. Fk. near Oakridge	90	74	May-July		121
	110	78	May-Sept.		141
Willamette at Salem	1,800	69	May-July		2,619
	2,500	69	May-Sept.		3,615
ROGUE, UMPQUA WATERSHEDS					
Applegate near Copper	40	49	May-July		81
	45	52	May-Sept.		87
Clearwater above Trap Creek	45	79	May-Sept.		57
Fourmile Lake net Inflow	2.0	67	May-July		3.0
Hyatt Reservoir net Inflow	1.5	58	May-July		2.2
Illinois River near Kerby	45	49	May-July		91
	50	52	May-Sept.		97
Little Butte, N. Fk. at Fish Lake nr. Lake Cr.	7.0	60	May-Sept.		11.6
Little Butte, S. Fk. near Lake Creek	10.0	62	May-July		16.1
	12.0	65	May-Sept.		18.4
Rogue above Prospect	110	60	May-July		184
	140	59	May-Sept.		239
Rogue, South Fork near Prospect	30	65	May-July		46
	37	66	May-Sept.		56
Rogue at Raygold near Central Point	250	51	May-July		493
	340	52	May-Sept.		648
Rogue at Grants Pass	350	56	May-Sept.		627
Umpqua, No. blw. Lemolo Res. nr. Toketee Falls	95	68	May-Sept.		139
KLAMATH WATERSHEDS					
Clear Lake Reservoir Inflow	5.0	33	May-Sept.		15.1
Gerber Reservoir Inflow	1.0	21	May-Sept.		4.8
Sprague near Chiloquin	50	30	May-Sept.		166
Upper Klamath Lake net Inflow	135	38	May-Sept.	355	353
Williamson below Sprague River	115	40	May-Sept.		287

† 1958-1972 period.

JUNE 1, 1977

# STREAMFLOW FORECASTS

STREAMFLOW FORECASTS		THIS YEAR		PAST RECORD	
BASIN, STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average +
LAKE COUNTY, GOOSE LAKE WATERSHEDS					
Chewaucan near Paisley	5.3	9	May-July		56
	6.0	10	May-Sept.		60
Deep above Adel	8.0	19	May-July		43
	8.0	18	May-Sept.		45
Drews Reservoir net Inflow	1.0	10	May-July		9.7
Honey Creek near Plush	1.5	13	May-July		11.3
	1.5	13	May-Sept.		11.4
Silver Creek near Silver Lake	1.1	10	May-July		10.7
Twentymile near Adel	1.8	16	May-Sept.		11.1
HARNEY BASIN WATERSHEDS					
Donner und Blitzen near Frenchglen	16.0	43	May-July		37
	19.0	45	May-Sept.		42
Silver near Riley	0.5	10	May-July		5.1
Silvies River near Burns	4.5	14	May-July		33
	4.8	14	May-Sept.		35
Trout Creek near Denio	0.7	12	May-July		5.8
	0.9	15	May-Sept.		6.2
(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.					

<sup>+</sup> 1958-1972 period.



JUNE 1, 1977

## RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
OWYHEE, MALHEUR WATERSHEDS				
Antelope	70.0	No report	--	46.7
Beulah Reservoir	60.0	21.2	40.9	49.0
Bully Creek	30.0	10.6	21.5	21.4
Owyhee	715.0	429.8	695.9	549.9
Warm Springs	191.0	54.0	165.9	136.2
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS				
Phillips Lake	73.5	38.3	67.8	--
Thief Valley	17.4	14.0	17.4	16.7
Unity	25.2	10.7	24.0	22.8
Wallowa Lake	37.5	34.7	30.2	30.2
Wolf Creek	10.4	7.6	--	--
UMATILLA, WALLA WALLA, WILLOW, ROCK LOWER JOHN DAY WATERSHEDS				
Cold Springs	50.0	26.5	48.6	47.8
McKay	73.8	31.0	67.9	60.7
UPPER DESCHUTES, CROOKED WATERSHEDS				
Crane Prairie	55.3	29.0	54.9	38.0
Crescent Lake	86.9	64.7	90.7	54.3
Ochoco	47.5	21.4	44.1	35.9
Prineville	153.0	102.2	146.6	146.0
Wickiup	200.0	177.6	169.3	165.9
HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS				
Clear Lake (Wasco)	11.9	4.3	12.5	5.8
WILLAMETTE WATERSHEDS				
Blue River	85.6*	79.7	80.7	--
Cottage Grove	30.0*	29.0	26.4	27.3
Cougar	155.2*	145.9	143.8	141.2
Detroit	299.9*	287.9	267.8	281.1
Dorena	70.5*	66.8	62.9	64.3
Fall Creek	115.0*	109.3	107.3	108.1
Fern Ridge	94.2*	47.3	95.8	89.5
Foster	30.0*	25.0	24.9	24.6
Green Peter	270.0*	253.8	245.6	250.9
Hills Creek	200.0*	127.4	187.8	185.6
Lookout Point	337.2*	246.9	323.5	306.3
Timothy Lake	61.7	26.9	64.4	61.4
Henry Hagg Lake	53.0	34.7	53.6	--
* Multiple purpose reservoir--space reserved primarily for flood runoff.				
(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15				

## RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
ROGUE, UMPQUA WATERSHEDS				
Emigrant Lake	39.0	31.3	35.0	35.2*
Fish Lake	8.0	6.9	8.0	6.5
Fourmile Lake	16.1	11.8	14.7	11.9
Howard Prairie	60.0	33.9	60.6	48.6
Hyatt Prairie	16.1	11.0	15.6	14.7
* Average for years of record (in base period) after reconstruction.				
KLAMATH WATERSHEDS				
Clear Lake	440.2	192.6	279.7	258.0
Gerber	94.0	28.9	65.1	63.8
Upper Klamath Lake	584.0	476.2	471.1	534.7
LAKE COUNTY, GOOSE LAKE WATERSHEDS				
Cottonwood	8.7	1.8	5.0	7.0*
Drews	63.0	20.2	52.3	53.1
Thompson Valley	19.5	7.5	--	--
* Average for years of record (in base period) after reconstruction.				
ear average. (d) Corrected to natural flow. (e) Not scheduled.				

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

+ 1958-1972 period.

JUNE 1, 1977

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont (In.)	Water Content (inches)	
				Last Yr.	Ave.
Annie Spring	5/31	0	0.0	19.9	--
Billie Creek Divide	5/27	0	0.0	0.0	0.0
Billie Creek Divide Pillow	5/27	--	0.1	--	--
Cascade Summit	5/27	5	2.2	10.7	7.5
Clear Lake	5/26	0	0.0	0.0	0.1
Clear Lake Experimental	5/26	0	0.0	0.0	0.5
Cold Springs Camp	6/1	3	1.0	18.0	13.5
Derr	5/31	0	0.0	--	--
Diamond-Crater Summit Rev.	5/31	0	0.0	19.1	14.1
Diamond Lake	5/31	0	0.0	8.8	3.2
Diamond Lake Junction	5/31	0	0.0	0.0	0.0
Fourmile Lake	5/27	0	0.0	0.0	--
Fourmile Lake Pillow	5/27	--	0.0	--	--
Hogg Pass	5/27	19	7.3	27.0	22.7
Hungry Flat	5/28	0	0.0	0.0	0.0
Laurel Mountain	5/31	0	0.0	--	--
Marion Forks	5/27	0	0.0	0.0	0.0
Marks Creek	5/27	0	0.0	--	--
Mud Ridge	5/26	2	0.7	13.0	--
Mud Ridge Pillow	5/26	--	0.0	--	--
New Dutchman Flat #2	5/28	16	9.2	48.6	40.0
Park Headquarters	5/31	35	15.0	25.4	--
Quartz Mountain	5/27	0	0.0	0.0	0.0
Railroad Overpass	5/27	0	0.0	0.0	0.0
Salt Creek Falls	5/27	0	0.0	0.0	1.1
Santiam Junction	5/27	T	0.1	0.0	0.3
Still Creek	5/26	0	0.0	11.4	4.6
Tangent	5/28	0	0.0	0.0	0.0
Valsetz Summit	5/31	0	0.0	--	--
Whitewater Bridge	5/27	0	0.0	--	--

## SNOW

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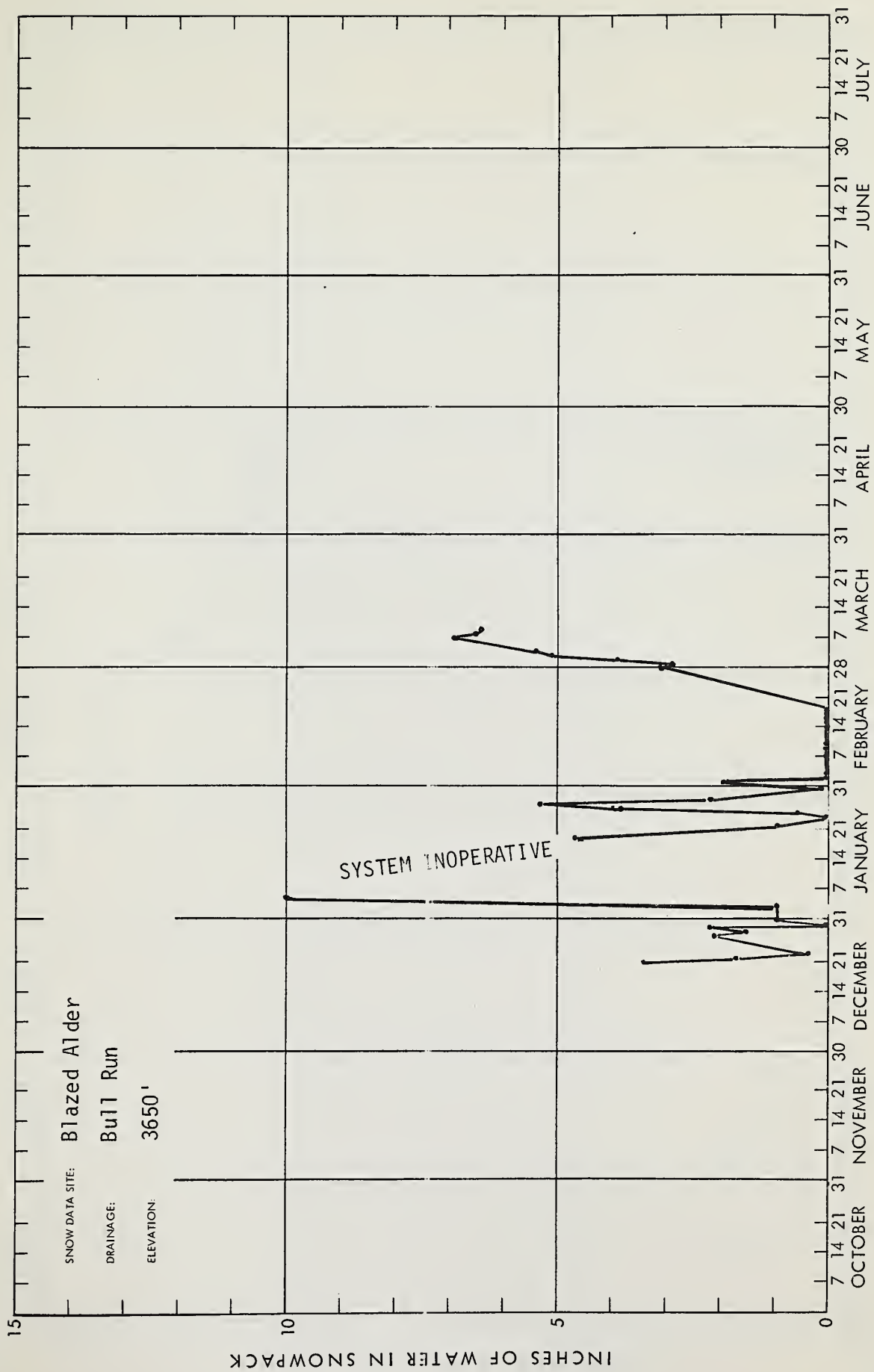
(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

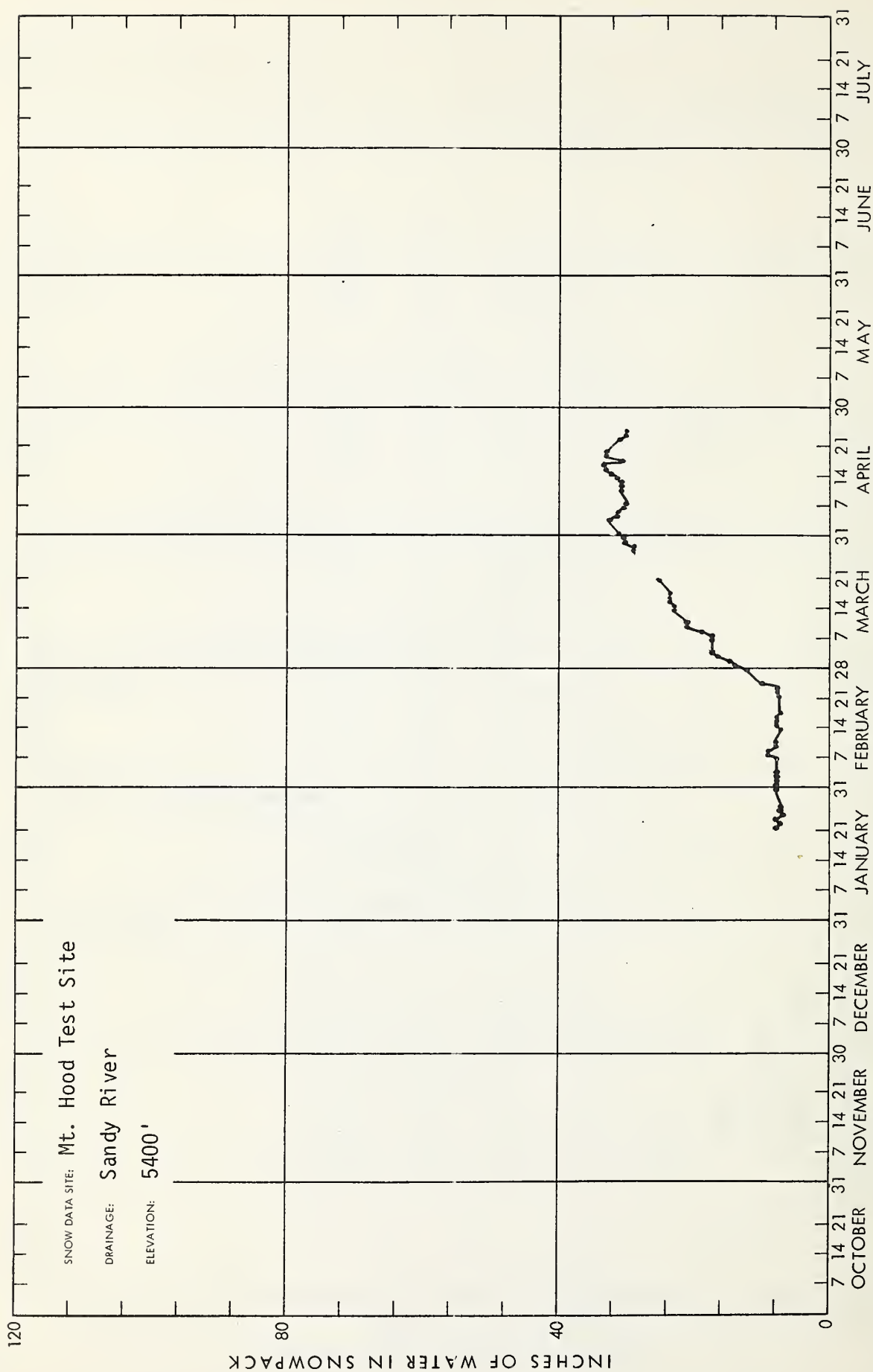
JUNE 1, 1977

## SOIL MOISTURE

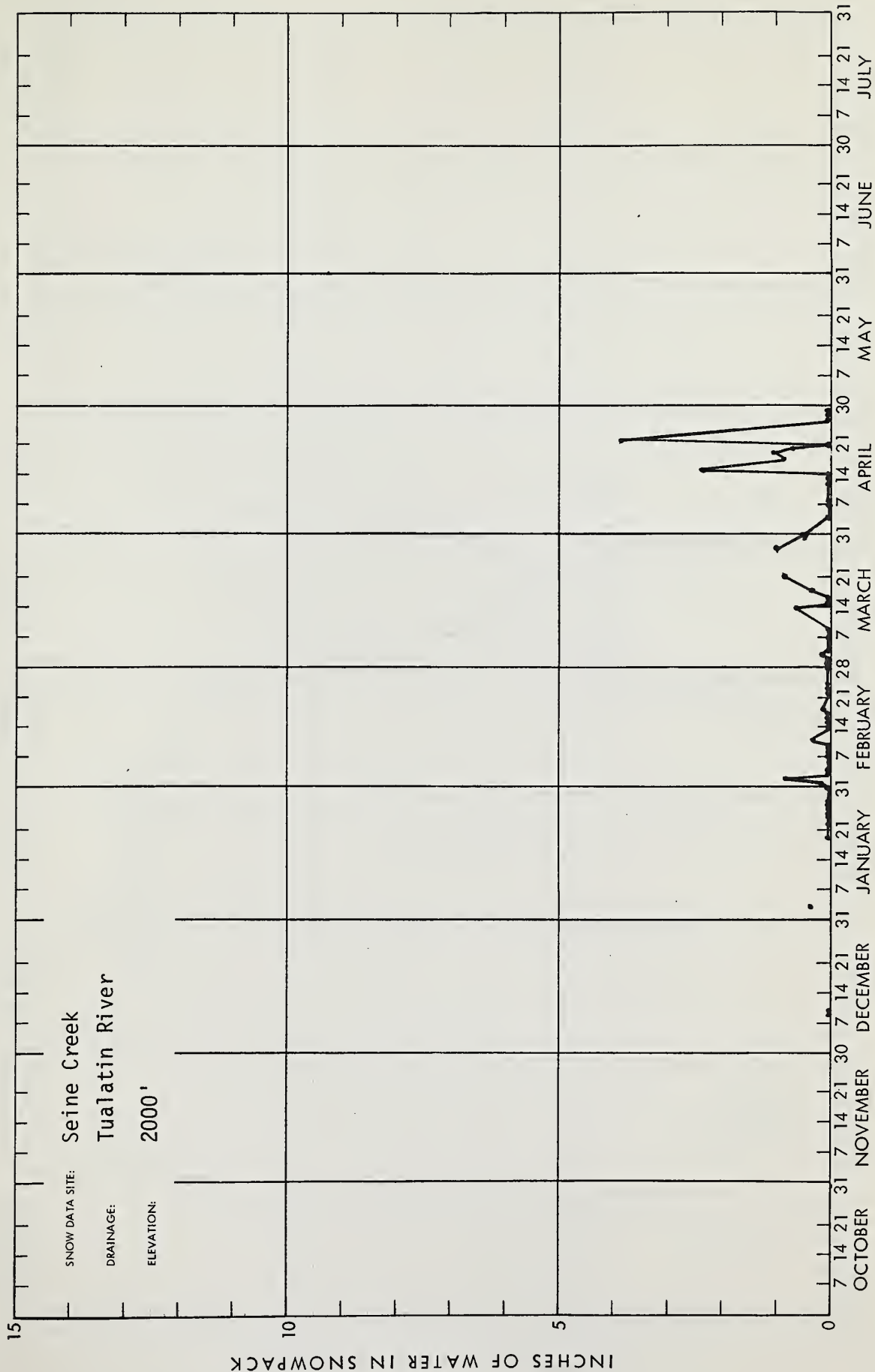
DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average †
OWYHEE, MALHEUR WATERSHEDS							
Bear Creek (Nev.)	7800	72	16.8	6/1	e	--	--
Big Bend (Nev.)	6700	48	16.7		e	--	--
Blue Mountain Spring	5900	42	16.9		10.1	12.1	12.8
Mud Flat (Ida.)	5500	48	12.8		e	--	--
Rodeo Flat (Nev.)	6800	42	11.0		e	--	--
Taylor Canyon (Nev.)	6200	48	15.1		e	--	--
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS							
Blue Mountain Summit	5100	36	16.8	6/2	e	--	15.2
Dooley Mountain	5430	36	9.2		2.8	--	5.7
Emigrant Springs	3925	48	22.3	6/2	e	--	20.7
Ladd Summit	3730	48	18.9		9.9	--	12.1
Moss Springs	5850	36	25.8		e	--	16.6
Tollgate	5070	48	23.6		e	--	19.4
UMATILLA, WALLA WALLA, WILLOW, ROCK LOWER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	5/31	10.8	--	12.6
Emigrant Springs	3925	48	22.3		e	--	20.7
Tollgate	5070	48	23.6		e	--	19.4
UPPER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	5/31	10.8	--	12.6
Blue Mountain Spring	5900	42	16.9	6/1	10.1	12.1	12.8
Blue Mountain Summit	5100	36	16.8		e	--	15.2
Derr	5670	24	9.0	5/31	9.0	8.6	8.5
Marks Creek	4540	36	14.1	5/27	12.1	--	13.2
Snow Mountain	6300	48	16.7	No report		--	15.7
Starr Ridge	5150	36	10.6	6/1	10.6	10.5	10.3
UPPER DESCHUTES, CROOKED WATERSHEDS							
Derr	5670	24	9.0	5/31	9.0	8.6	8.5
Marks Creek	4540	36	14.1	5/27	12.1	--	13.2
Snow Mountain	6300	48	16.7	No report		--	15.7
KLAMATH WATERSHEDS							
Quartz Mountain	5230	48	15.3	5/27	14.6	9.0	9.7
LAKE COUNTY, GOOSE LAKE WATERSHEDS							
Camas Creek	5720	42	14.5	6/3	10.6	--	12.6
Quartz Mountain	5230	48	15.3	5/27	14.6	9.0	9.7
HARNEY BASIN WATERSHEDS							
Blue Mountain Spring	5900	42	16.9	6/1	10.1	12.1	12.8
Silvies	6900	48	16.4		e	--	--
Snow Mountain	6300	48	16.7	No report		--	15.7
Starr Ridge	5150	36	10.6	6/1	10.6	10.5	10.3
Willow-Bald	5000	24	6.6	5/31	5.8	--	5.6
(a) Estimated (b) 1958-72 adjusted average (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.							

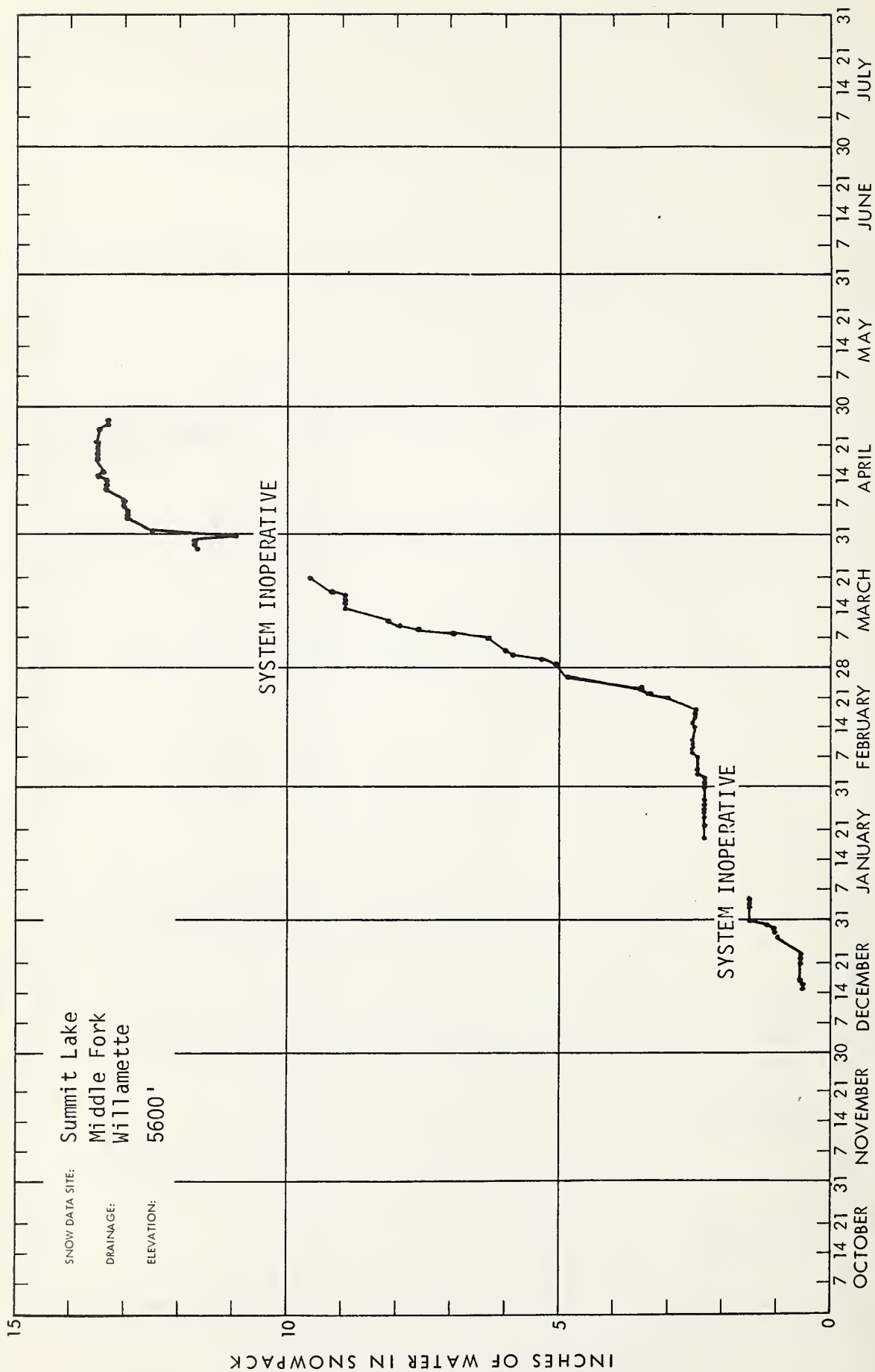
(a) Estimated (b) 1958-72 adjusted average (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

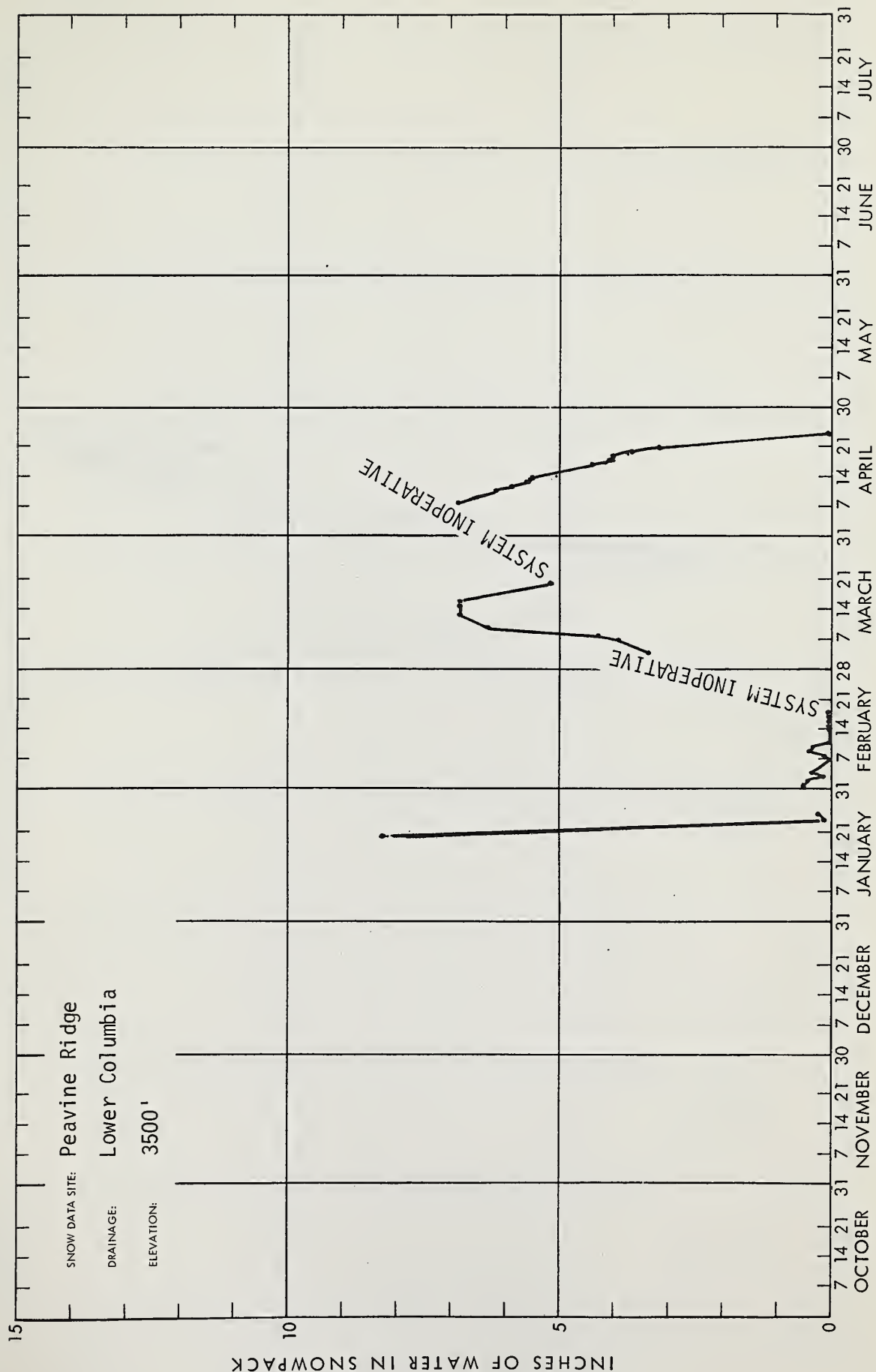


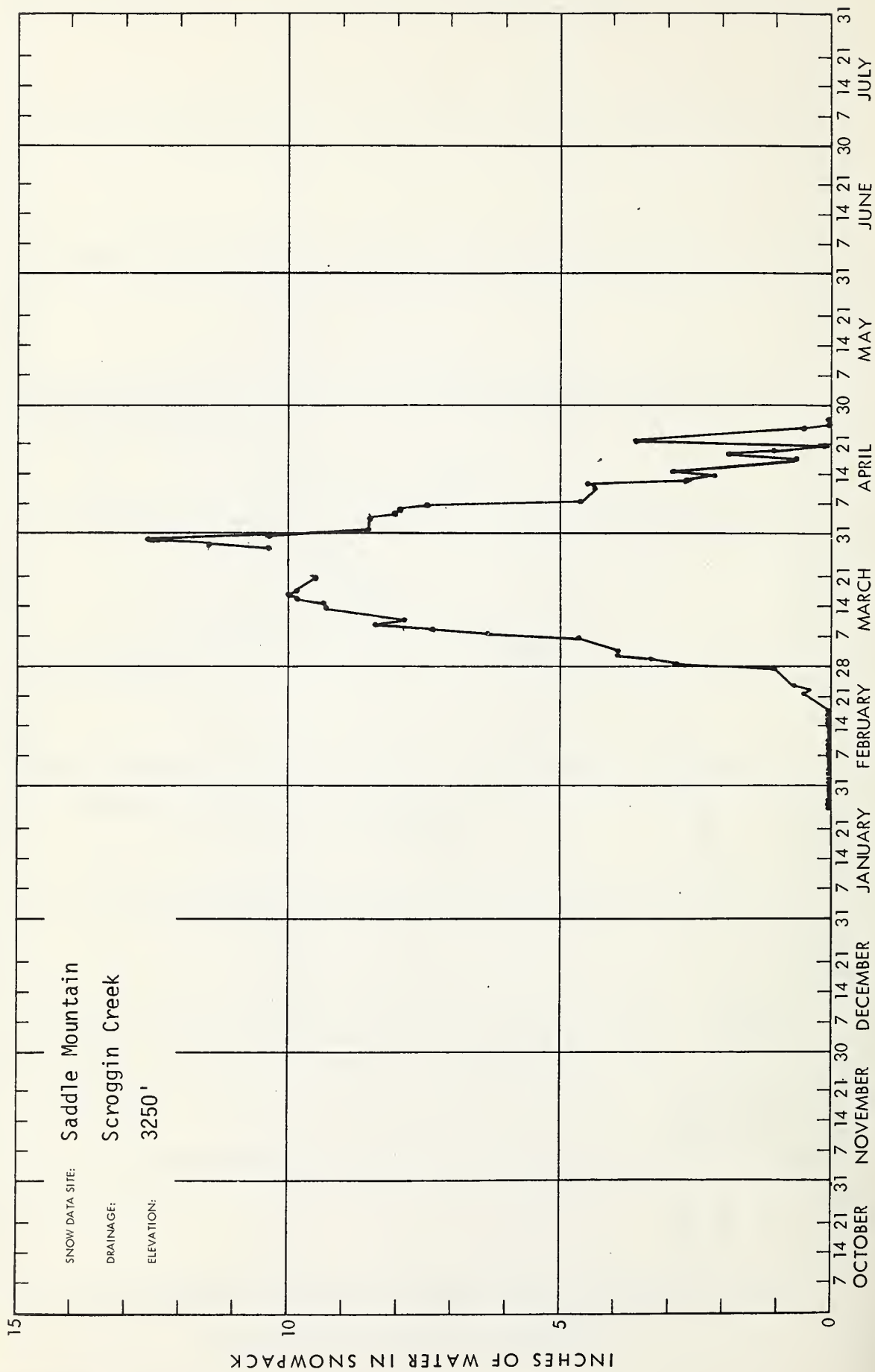


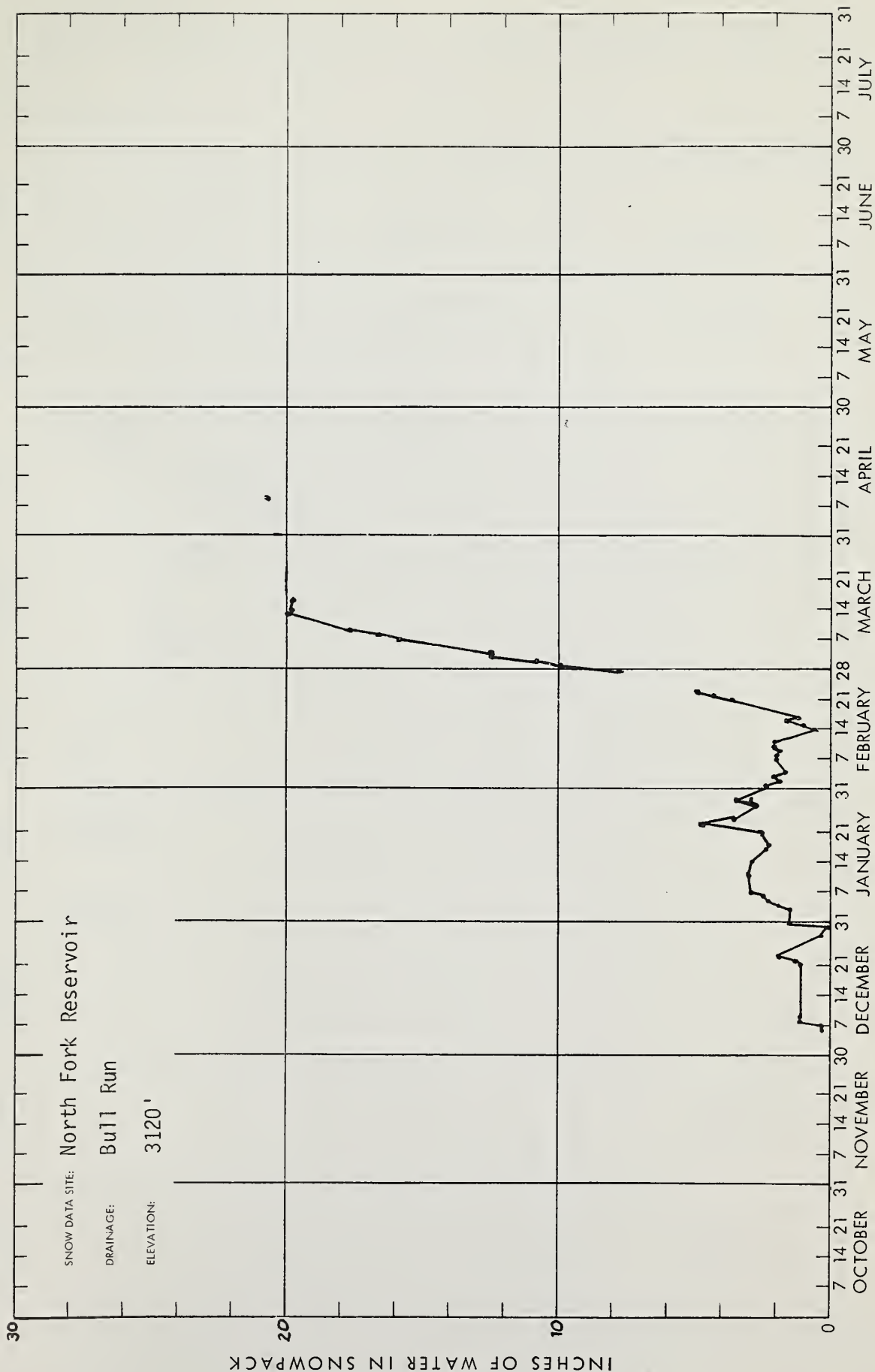








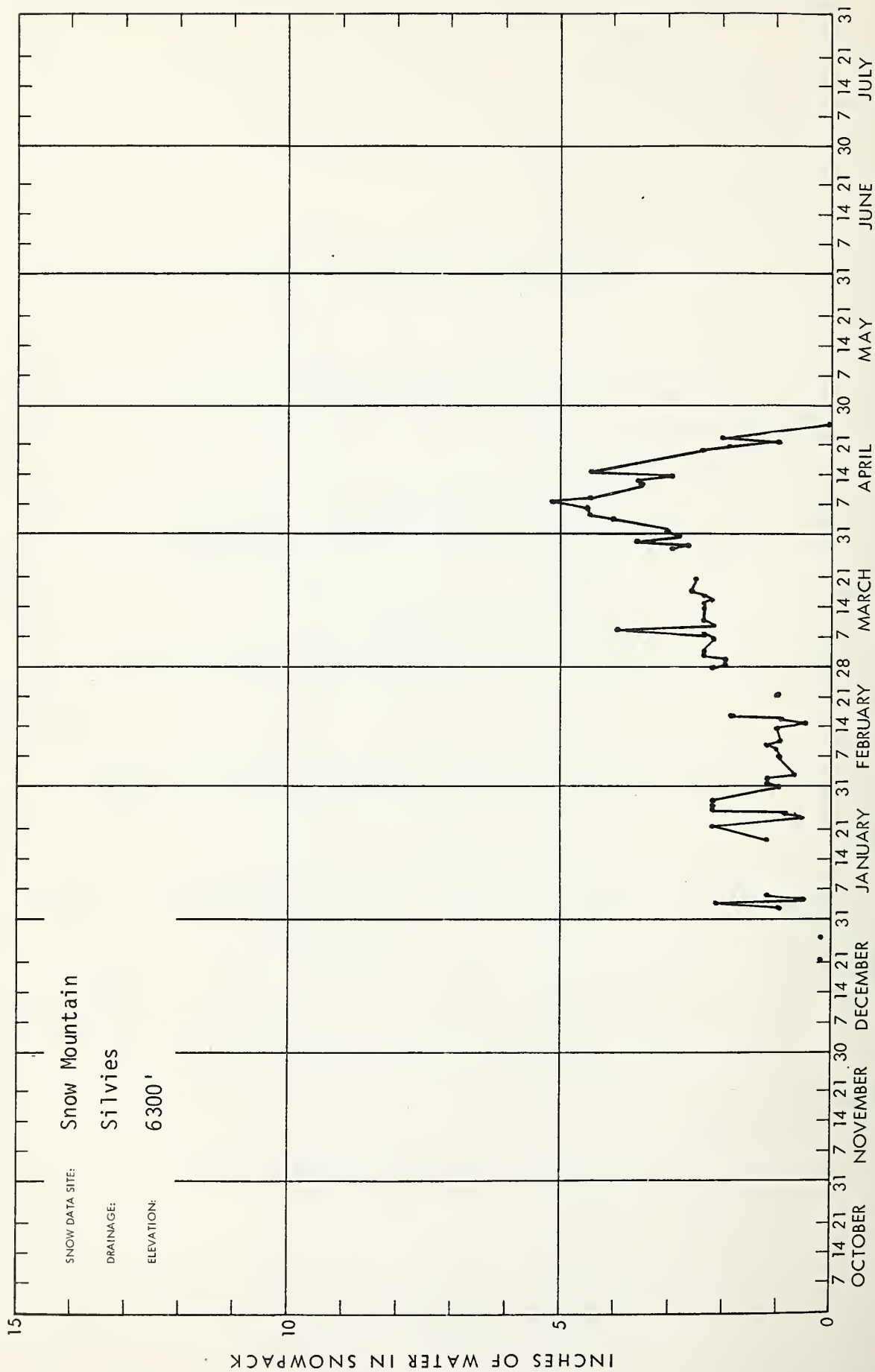






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WSFB-X13A



ERRATA: 1977 RESERVOIR STORAGE MEASUREMENTS PUBLISHED IN ERROR

RESERVOIR NAME	REPORT	USABLE STORAGE
Greenpoint Reservoir		
Previously Published	February	35.0
Correct Data	February	No Report
Thief Valley Reservoir		
Previously Published	February	15.0
Correct Data	February	16.1
Thompson Valley Reservoir		
Previously Published	March	22.5
Correct Data	March	9.0

